

1. A method for making sintered plates comprising:

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providing a metal core of a first thickness having a top surface and a bottom surface;

cleaning the entire top surface;

roughening the entire top surface;

providing a thermosetting top adhesive layer of a second thickness over the entire roughened top surface;

placing a sintered top metal lining of a third thickness over the entire top adhesive layer;

bonding the top metal lining to the metal core via the top adhesive layer under a pressure of around 25 to around 1000 psi and a temperature of around 374 to 475 degrees Fahrenheit for greater than approximately thirty seconds to activate the thermosetting top adhesive layer.

2. The method of claim 1 further comprising the steps of:

cleaning the entire bottom surface;

roughening the entire bottom surface;

providing a thermosetting bottom adhesive layer substantially equal to the second thickness over the entire roughened bottom surface;

placing a sintered bottom metal lining substantially equal to the third thickness over the entire bottom adhesive layer;

bonding the bottom metal lining to the metal core via the bottom adhesive layer under a pressure of around 25 to around 1000 psi and a temperature of around 374 to 475 degrees Fahrenheit for greater than approximately thirty seconds to activate the thermosetting bottom adhesive layer.

- 3. The method of claim 2 wherein the top metal lining and the bottom metal lining have a different composition.
- 4. An adhesive bonded sintered plate comprising:

a metal core of a first thickness, the metal core having a top surface, a bottom surface, and a melting temperature not substantially greater than 1220 degrees Fahrenheit;

a top adhesive layer of a second thickness, the top adhesive layer covering the entire top surface;

a top metal lining of a third thickness covering the entire top adhesive layer; wherein the core is attached to the top metal lining via the top adhesive layer.

- 5. The adhesive bonded sintered plate of claim 3 further comprising:
- a bottom adhesive layer on the bottom surface, the bottom adhesive layer substantially equal to the second thickness;
- a bottom metal lining substantially equal to the third thickness; wherein the core is attached to the bottom metal lining via the bottom adhesive layer.
- 6. The sintered plate of claim 5 wherein the top metal lining and bottom metal lining have a different composition.